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ENGLISH TRANSLATION OF ANNEXES TO THE IPER

1. A polyurethane-polymer hybrid dispersion obtainable by

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a) preparing a dispersion component or binder component based on an aqueous solution or dispersion of an optionally hydroxy- and/or amino-functional polyurethane-polymer hybrid having fluorinated or unfluorinated side chains, where

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a₁) 5 to 100 parts by weight of a laterally fluorine-modified, anionically stabilized polyurethane base dispersion (A) having preferably an ideally linearly segmented structure, a polymer-bonded fluorine content of up to 5% by weight, a hydroxyl number and/or amine number of 0 to 250 mg KOH/g, a solids content of 20% to 60% by weight, a solvent content of 0 to 20% by weight, and an average molar mass of 5000 to 100 000 daltons are admixed with 3 to 300 parts by weight of a monomer component (B) consisting of

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(i) 1 to 100 parts by weight of one or more unsaturated monomers (B)(i) having one or more free-radically polymerizable double bonds, selected from the groups of acrylic acid and its derivatives and/or methacrylic acid and its derivatives and/or styrene and its derivatives

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and/or

(ii) 1 to 100 parts by weight of one or more unsaturated fluorine-modified monomers

(B)(ii) having one or more free-radically polymerizable double bonds, selected from the groups of alkyl (per)fluoro (meth)acrylates and/or (per)fluoroalkyl (meth)acrylates and/or (per)fluoroalkyl (per)fluoro(meth)-acrylates and/or reaction products of 1-(1-isocyanato-1-methylethyl)-3-(2-propenyl)benzene (m-TMI) and perfluoroalkyl alcohols

and/or

(iii) 1 to 100 parts by weight of one or more unsaturated optionally fluorine-modified monomers (B)(iii) having one or more free-radically polymerizable double bonds, selected from the group of polyhedral oligomeric polysilsesquioxanes (POSS) of the general formula $(\text{RSiO}_{1.5})_n$ with $n = 4, 6, 8, 10, 12$ and R = organic radical having 1 to 100 C atoms and 0 to 50 N and/or 0 to 50 O and/or 0 to 50 F and/or 0 to 50 Si and/or 0 to 50 S atoms and a molar mass of 250 to 25 000 daltons,

with 0.01 to 10 parts by weight of an initiator component (C), consisting of at least one lipophilic free-radical initiator having one or more thermally labile azo or peroxo groups, and 0 to 200 parts by weight of water, it being possible for the monomer component (B), the initiator component (C), and the water to be metered in simultaneously, successively or in a mixture to the polyurethane base dispersion (A), and subsequently

- 5 a₂) in the reaction mixture from stage a₁), as a
 result of the thermal decomposition of
 component (C), carrying out a free-radical
 polymerization of component (B) within the
 micelles of the polyurethane base dispersion
 (A),

 and, if desired,

10 b) subsequently reacting the dispersion or
 binder component formed from components (A)
 to (C) from stage a₂) with 20 to 100 parts by
 weight of a crosslinker component (D) (curing
15 agent), use being made as crosslinker
 component or curing agent (D) of water-
 dispersible (paint) polyisocyanates having
 aliphatically and/or cycloaliphatically
 and/or aromatically attached isocyanate
20 groups, it being possible for these
 polyisocyanates to contain 0 to 25% by weight
 of an organic solvent.